

LAB 3

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LAB: CSE4002 Mobile Application Development LAB

Design an COVID APP to get the symptoms and analyse it to print the diagnostic result. Assume your condition for covid, cough and fever and display the result in MainActivity2.

MainActivity.Java

```
package com.example.lab3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.Toast;

import java.util.ArrayList;
```

```
public class MainActivity extends AppCompatActivity {

    EditText name,place,aadhar;

    Button submit,clear;

    CheckBox cold,fever,cough,noSmell,vomit;

    String diag;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        submit=findViewById(R.id.submit);

        clear=findViewById(R.id.clear);

        name=findViewById(R.id.name);

        place=findViewById(R.id.place);

        aadhar=findViewById(R.id.aadhar);

        cold=findViewById(R.id.cold);

        cough=findViewById(R.id.cough);

        fever=findViewById(R.id.fever);

        noSmell=findViewById(R.id.noSmell);

        vomit=findViewById(R.id.vomit);

        ArrayList<CheckBox> selectCb=new ArrayList<>();

        selectCb.add(cold);

        selectCb.add(cough);

        selectCb.add(fever);

        selectCb.add(noSmell);
```

```

selectCb.add(vomit);

submit.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        if(cold.isChecked() && cough.isChecked() && !noSmell.isChecked()
&& !fever.isChecked() && !vomit.isChecked()){

            diag="Normal Cold";

        }

        else if(cold.isChecked() && cough.isChecked() &&
noSmell.isChecked() && !fever.isChecked() && !vomit.isChecked()){

            diag="COVID";

        }

        else if(!cold.isChecked() && !cough.isChecked() &&
!noSmell.isChecked() && fever.isChecked() && vomit.isChecked()){

            diag="Normal Fever";

        }

        sendDetailIntent(v);

    }

});

```

```

clear.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        name.getText().clear();

        place.getText().clear();

        aadhar.getText().clear();

```

```

        for (CheckBox cb:selectCb
        ) {

            if(cb.isChecked()){

                System.out.println(cb.getText().toString());

                cb.setChecked(false);}

        }

    });

}

public void sendDetailIntent(View v){

    String cbDet="\n";

    ArrayList<CheckBox> selectCb=new ArrayList<>();

    selectCb.add(cold);

    selectCb.add(cough);

    selectCb.add(fever);

    selectCb.add(noSmell);

    selectCb.add(vomit);

    Intent detail=new Intent(getApplicationContext(), MainActivity2.class);

    Bundle b=new Bundle();

    b.putString("name",name.getText().toString());

    b.putString("diag",diag);

    b.putString("place",place.getText().toString());

    b.putString("ad",aadhar.getText().toString());

```

```

        for (CheckBox cb:selectCb){

            if (cb.isChecked()){

                cbDet = cbDet + cb.getText().toString()+"\n";

            }

        }

        b.putString("cb",cbDet);

        detail.putExtras(b);

        startActivity(detail);

    }

}

```

XML Code

```

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:id="@+id/in"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".MainActivity">

    <TextView

        android:id="@+id/textView"

        android:layout_width="wrap_content"

```

```
    android:layout_height="wrap_content"

    android:layout_marginStart="32dp"

    android:layout_marginLeft="32dp"

    android:layout_marginTop="120dp"

    android:text="@string/name"

    app:layout_constraintEnd_toStartOf="@+id/name"

    app:layout_constraintHorizontal_bias="0.0"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
    android:id="@+id/name"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_marginTop="112dp"

    android:layout_marginEnd="72dp"

    android:layout_marginRight="72dp"

    android:ems="10"

    android:inputType="textPersonName"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    android:autoFillHints="" />
```

<EditText

```
    android:id="@+id/place"

    android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"

android:layout_marginTop="32dp"

android:layout_marginEnd="72dp"

android:layout_marginRight="72dp"

android:ems="10"

android:inputType="textPersonName"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintTop_toBottomOf="@+id/name" />
```

<EditText

```
android:id="@+id/aadhar"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginTop="28dp"

android:layout_marginEnd="68dp"

android:layout_marginRight="68dp"

android:ems="10"

android:inputType="textPersonName"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintTop_toBottomOf="@+id/place"

app:layout_constraintVertical_bias="0.023" />
```

<TextView

```
android:id="@+id/textView2"

android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"

    android:layout_marginStart="32dp"

    android:layout_marginLeft="32dp"

    android:layout_marginTop="60dp"

    android:text="Place:"

    app:layout_constraintEnd_toStartOf="@+id/place"

    app:layout_constraintHorizontal_bias="0.0"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toBottomOf="@+id/textView" />
```

<TextView

```
    android:id="@+id/textView3"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:layout_marginStart="24dp"

    android:layout_marginLeft="24dp"

    android:layout_marginTop="60dp"

    android:text="Aadhar"

    app:layout_constraintBottom_toTopOf="@+id/textView4"

    app:layout_constraintEnd_toStartOf="@+id/aadhar"

    app:layout_constraintHorizontal_bias="0.137"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toBottomOf="@+id/textView2"

    app:layout_constraintVertical_bias="0.0" />
```

<TextView


```
android:id="@+id/textView4"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginTop="340dp"

android:text="Symptoms"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.093"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent" />
```

<CheckBox

```
android:id="@+id/cold"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Cold"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.654"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="0.585" />
```

<CheckBox

```
android:id="@+id/cough"

android:layout_width="wrap_content"

android:layout_height="wrap_content"
```

```
android:layout_marginTop="400dp"

android:text="Cough"

app:layout_constraintBottom_toTopOf="@+id/fever"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.153"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="0.0" />
```

<CheckBox

```
android:id="@+id/fever"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Fever"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.151"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="0.685" />
```

<CheckBox

```
android:id="@+id/noSmell"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="No Smell"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.708"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.685" />
```

<CheckBox

```
android:id="@+id/vomit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Vomiting"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.16"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.781" />
```

<Button

```
android:id="@+id/submit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Submit"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.226"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />
```

```
<Button
```

```
    android:id="@+id/clear"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Clear"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.708"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.9" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity2.java

```
package com.example.lab3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;
```

```

import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

    TextView render;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main2);

        render=findViewById(R.id.render);

        Intent getDetail=getIntent();

        Bundle b=getDetail.getExtras();

        String s="Name: "+b.getString("name")+"\nPlace:
"+b.getString("place")+"\nAadhar No: "+b.getString("ad")+"\nSymptoms:
"+b.getString("cb")+"\nDiagnosis: "+b.getString("diag");

        render.setText(s);

    }

}

```

XML Code

```

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context="MainActivity2">

```

```

<TextView
    android:id="@+id/render"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="TextView"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

OUTPUT



Name: Sreenidhi Ganachari

Place: Bengaluru

Aadhar 1234567890

Symptoms

☒ Cough

☒ Cold

☐ Fever

☒ No Smell

☐ Vomiting

SUBMIT

CLEAR

Name: Sreenidhi Ganachari
Place: Bengaluru
Aadhar No: 1234567890
Symptoms:
Cold
Cough
No Smell

Diagnosis: COVID



Name: Sreenidhi Ganachari

Place: Bengaluru

Aadhar 1234567890

Symptoms

☒ Cough

☒ Cold

☒ Fever

☒ No Smell

☐ Vomiting

SUBMIT

CLEAR



Name: Sreenidhi Ganachari
Place: Bengaluru
Aadhar No: 1234567890
Symptoms:
Cold
Cough
Fever
No Smell

Diagnosis: null

